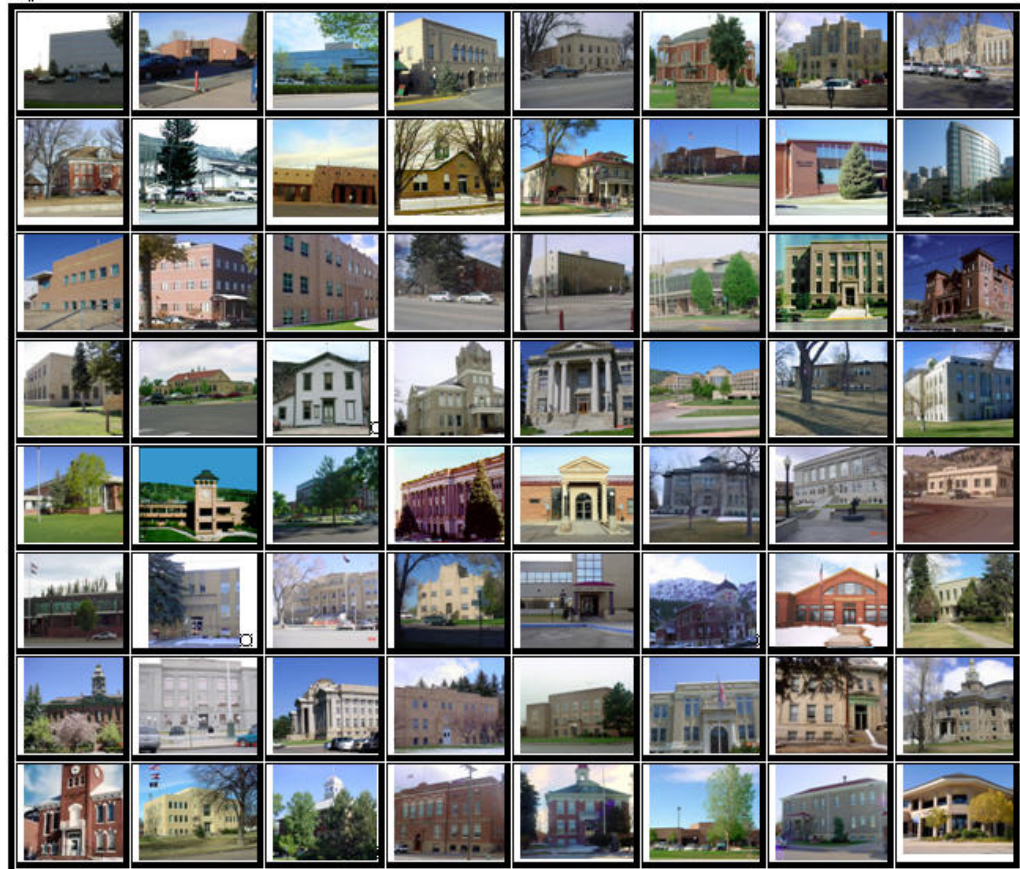




2013
PROWERS COUNTY
PROPERTY ASSESSMENT
STUDY





September 15, 2013

Mr. Mike Mauer
Director of Research
Colorado Legislative Council
Room 029, State Capitol Building
Denver, Colorado 80203

RE: Final Report for the 2013 Colorado Property Assessment Study

Dear Mr. Mauer:

Wildrose Appraisal Inc.-Audit Division is pleased to submit the Final Reports for the 2013 Colorado Property Assessment Study.

These reports are the result of two analyses: A procedural audit and a statistical audit.

The procedural audit examines all classes of property. It specifically looks at how the assessor develops economic areas, confirms and qualifies sales, develops time adjustments and performs periodic physical property inspections. The audit reviews the procedures for determining subdivision absorption and subdivision discounting. Valuation methodology is examined for residential properties and commercial properties. Procedures are reviewed for producing mines, oil and gas leaseholds and lands producing, producing coal mines, producing earth and stone products, severed mineral interests, and non-producing patented mining claims.

Statistical audits are performed on vacant land, residential properties, commercial/industrial properties and agricultural land. A statistical analysis is performed for personal property compliance on the eleven largest counties: Adams, Arapahoe, Boulder, Denver, Douglas, El Paso, Jefferson, Larimer, Mesa, Pueblo and Weld. The remaining counties receive a personal property procedural study.

Wildrose Appraisal Inc. – Audit Division appreciates the opportunity to be of service to the State of Colorado. Please contact us with any questions or concerns.

A handwritten signature in black ink that reads "Harry J. Fuller". The signature is written in a cursive style.

Harry J. Fuller
Project Manager
Wildrose Appraisal Inc. – Audit Division

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INTRODUCTION



Colorado

The State Board of Equalization (SBOE) reviews assessments for conformance to the Constitution. The SBOE will order revaluations for counties whose valuations do not reflect the proper valuation period level of value.

The statutory basis for the audit is found in C.R.S. 39-1-104 (16)(a)(b) and (c).

The legislative council sets forth two criteria that are the focus of the audit group:

To determine whether each county assessor is applying correctly the constitutional and statutory provisions, compliance requirements of the State Board of Equalization, and the manuals published by the State Property Tax Administrator to arrive at the actual value of each class of property.

To determine if each assessor is applying correctly the provisions of law to the actual values when arriving at valuations for assessment of all locally valued properties subject to the property tax.

The property assessment audit conducts a two-part analysis: A procedural analysis and a statistical analysis.

The procedural analysis includes all classes of property and specifically looks at how the assessor develops economic areas, confirms and qualifies sales, and develops time adjustments. The audit also examines the procedures for adequately discovering, classifying and valuing agricultural outbuildings, discovering subdivision build-out and subdivision discounting procedures. Valuation methodology for vacant land, improved residential properties and commercial properties is examined. Procedures for producing mines, oil and gas leaseholds and lands producing, producing coal mines, producing earth and stone products, severed mineral interests and non-producing patented mining claims are also reviewed.

Statistical analysis is performed on vacant land, residential properties, commercial industrial properties, agricultural land, and personal property. The statistical study results are compared with State Board of Equalization compliance requirements and the manuals published by the State Property Tax Administrator.

Wildrose Audit has completed the Property Assessment Study for 2013 and is pleased to report its findings for Prowers County in the following report.

REGIONAL/HISTORICAL SKETCH OF PROWERS COUNTY

Regional Information

Prowers County is located in the Eastern Plains region of Colorado. The Eastern Plains of Colorado refer to the region on the east side of the Rocky Mountain. It is east of the population centers of the Front Range,

including Baca, Bent, Cheyenne, Crowley, Elbert, Kiowa, Kit Carson, Lincoln, Logan, Morgan, Otero, Phillips, Prowers, Sedgwick, Washington, and Yuma counties.



Historical Information

Prowers County has a population of approximately 12,551 people with 7.65 people per square mile, according to the U.S. Census Bureau's 2010 census data. This represents a -13.34 percent change from the 2000 Census.

Prowers County, once part of Bent County, was established in 1889 with an area of 1,621 square miles. The county was named for John W. Prowers, the pioneer who drove the first herd of Hereford cattle to the Arkansas Valley from Missouri.

The county seat is Lamar, named for Lucius Q. C. Lamar, the Secretary of the Interior at the time.

The City of Lamar serves as the industrial and retail center for southeast Colorado. Located in the fertile Arkansas River Valley, the surrounding agricultural landscape features wide-open spaces with panoramic views of irrigated corn and alfalfa fields, as well as dry land wheat fields. This semi-arid climate is favorable to livestock production and offers an average of 340 days of sunshine annually.

Visitors and guests can find a variety of recreational activities, historically significant sites and western traditions to visit or attend year round in Prowers County. Attractions in the County include the Santa Fe Trail, Camp Amache, camping, fishing, hunting, birding trails, WPA structures, petroglyphs, and Big Timbers Museum.

Colorado Green (Shell Wind Energy and PPM Energy) has located the world's fifth largest wind farm in the world south of Prowers County. Xcel Energy purchases the energy created from Colorado Green and Prairie Wind Energy and converts it at the AC/DC Electricity Converter Station in northern Prowers County. This is one of seven such transfer stations located along the nation's heartland.

The Pierre Auger Observatory has selected southeast Colorado as the site in the northern hemisphere to build a world-class observatory to study the highest energy cosmic rays. A visitor's center and scientific conference center will be built on Lamar Community College grounds. (www.prowerscounty.net, www.procolorado.org., William Bright, *Colorado Place Names, 3rd Edition*, Johnson Books, 2004, p. 143 and 101)

RATIO ANALYSIS

Methodology

All significant classes of properties were analyzed. Sales were collected for each property class over the appropriate sale period, which was typically defined as the 18-month period between January 2011 and June 2012. Counties with less than 30 sales typically extended the sale period back up to 5 years prior to June 30, 2012 in 6-month increments. If there were still fewer than 30 sales, supplemental appraisals were performed and treated as proxy sales. Residential sales for all counties using this method totaled at least 30 per county. For commercial sales, the total number analyzed was allowed, in some cases, to fall below 30. There were no sale quantity issues for counties requiring vacant land analysis or condominium analysis. Although it was required that we examine the median and coefficient of dispersion for all counties, we also calculated the weighted mean and price-related differential for each class of property. Counties were not passed or failed by these

latter measures, but were counseled if there were anomalies noted during our analysis. Qualified sales were based on the qualification code used by each county, which were typically coded as either “Q” or “C.” The ratio analysis included all sales. The data was trimmed for counties with obvious outliers using IAAO standards for data analysis. In every case, we examined the loss in data from trimming to ensure that only true outliers were excluded. Any county with a significant portion of sales excluded by this trimming method was examined further. No county was allowed to pass the audit if more than 5% of the sales were “lost” because of trimming. For the largest 11 counties, the residential ratio statistics were broken down by economic area as well.

Conclusions

For this final analysis report, the minimum acceptable statistical standards allowed by the State Board of Equalization are:

ALLOWABLE STANDARDS RATIO GRID		
Property Class	Unweighted Median Ratio	Coefficient of Dispersion
Commercial/Industrial	Between .95-1.05	Less than 20.99
Condominium	Between .95-1.05	Less than 15.99
Single Family	Between .95-1.05	Less than 15.99
Vacant Land	Between .95-1.05	Less than 20.99

The results for Prowers County are:

Prowers County Ratio Grid					
Property Class	Number of Qualified Sales	Unweighted Median Ratio	Price Related Differential	Coefficient of Dispersion	Time Trend Analysis
Commercial/Industrial	34	0.975	1.002	7.6	Compliant
Condominium	N/A	N/A	N/A	N/A	N/A
Single Family	117	0.993	1.011	7.1	Compliant
Vacant Land	N/A	N/A	N/A	N/A	N/A

After applying the above described methodologies, it is concluded from the sales ratios that Prowers County is in compliance

with SBOE, DPT, and Colorado State Statute valuation guidelines.

Recommendations

None



TIME TRENDING VERIFICATION

Methodology

While we recommend that counties use the inverted ratio regression analysis method to account for market (time) trending, some counties have used other IAAO-approved methods, such as the weighted monthly median approach. We are not auditing the methods used, but rather the results of the methods used. Given this range of methodologies used to account for market trending, we concluded that the best validation method was to examine the sale ratios for each class across the appropriate sale period. To be specific, if a county has considered and adjusted correctly for market trending, then the sale ratios should remain stable (i.e. flat) across the sale period. If a residual market trend is detected, then the county may or may not have addressed market

trending adequately, and a further examination is warranted. This validation methodology also considers the number of sales and the length of the sale period. Counties with few sales across the sale period were carefully examined to determine if the statistical results were valid.

Conclusions

After verification and analysis, it has been determined that Prowers County has complied with the statutory requirements to analyze the effects of time on value in their county. Prowers County has also satisfactorily applied the results of their time trending analysis to arrive at the time adjusted sales price (TASP).

Recommendations

None

SOLD / UNSOLD ANALYSIS

Methodology

Prowers County was tested for the equal treatment of sold and unsold properties to ensure that “sales chasing” has not occurred. The auditors employed a multi-step process to determine if sold and unsold properties were valued in a consistent manner.

All qualified residential and commercial class properties were examined using the unit value method, where the actual value per square foot was compared between sold and unsold properties. A class was considered qualified if it met the criteria for the ratio analysis. The median value per square foot for both groups was compared from an appraisal and statistical perspective. If no significant difference was indicated, then we concluded that no further testing was warranted and that the county was in compliance in terms of sold/unsold consistency.

If either residential or commercial differences were significant using the unit value method, or if data limitations made the comparison invalid, then the next step was to perform a ratio analysis comparing the 2012 and 2013 actual values for each qualified class of property. All qualified vacant land classes were tested using this method. The sale property ratios were arrayed using a range of 0.8 to 1.5, which theoretically excluded changes between years that were due to other unrelated changes in the property. These ratios were also stratified at the appropriate level of analysis. Once the percent change was determined for each appropriate class and sub-class, the next step was to select the unsold sample. This sample

was at least 1% of the total population of unsold properties and excluded any sale properties. The unsold sample was filtered based on the attributes of the sold dataset to closely correlate both groups. The ratio analysis was then performed on the unsold properties and stratified. The median and mean ratio distribution was then compared between the sold and unsold group. A non-parametric test such as the Mann-Whitney test for differences between independent samples was undertaken to determine whether any observed differential was significant. If this test determined that the unsold properties were treated in a manner similar to the sold properties, it was concluded that no further testing was warranted and that the county was in compliance.

If a class or sub-class of property was determined to be significantly different by this method, the final step was to perform a multi-variate mass appraisal model that developed ratio statistics from the sold properties that were then applied to the unsold sample. This test compared the measures of central tendency and confidence intervals for the sold properties with the unsold property sample. If this comparison was also determined to be significantly different, then the conclusion was that the county had treated the unsold properties in a different manner than sold properties.

These tests were supported by both tabular and chart presentations, along with saved sold and unsold sample files.

Sold/Unsold Results	
Property Class	Results
Commercial/Industrial	Compliant
Condominium	N/A
Single Family	Compliant
Vacant Land	N/A

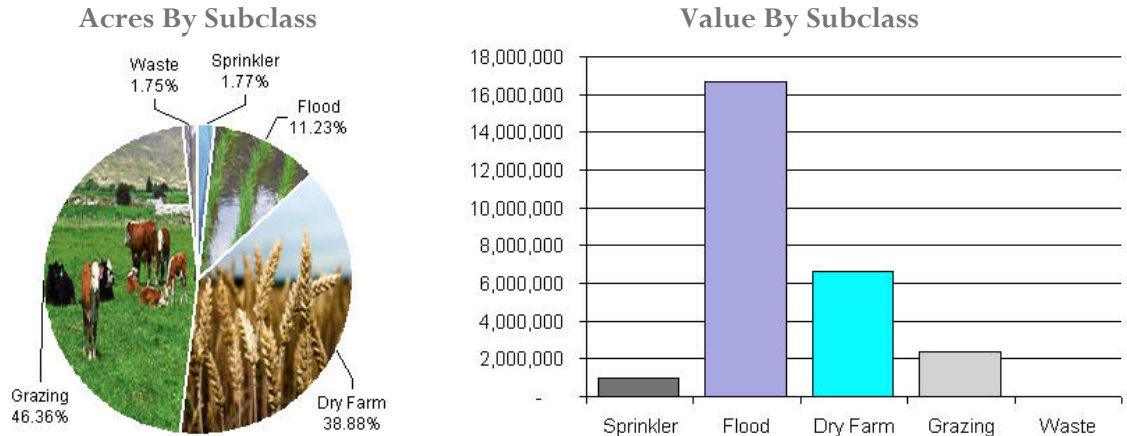
Conclusions

After applying the above described methodologies, it is concluded that Prowers County is reasonably treating its sold and unsold properties in the same manner.

Recommendations

None

AGRICULTURAL LAND STUDY



Agricultural Land

County records were reviewed to determine major land categories such as irrigated farm, dry farm, meadow hay, grazing and other lands. In addition, county records were reviewed in order to determine if: Aerial photographs are available and are being used; soil conservation guidelines have been used to classify lands based on productivity; crop rotations have been documented; typical commodities and yields have been determined; orchard lands have been properly classified and valued; expenses reflect a ten year average and are typical landlord expenses; grazing lands have been properly classified and valued; the number of acres in each class and subclass have been determined; the capitalization rate was properly applied. Also, documentation was required for the valuation methods used and any locally developed yields, carrying capacities, and expenses. Records were also checked to ensure that the commodity prices and expenses, furnished by the Property Tax Administrator (PTA), were applied properly.

(See Assessor Reference Library Volume 3 Chapter 5.)

Conclusions

An analysis of the agricultural land data indicates an acceptable appraisal of this property type. Directives, commodity prices and expenses provided by the PTA were properly applied. Expenses used by the county were allowable expenses and were in an acceptable range. Grazing lands carrying capacities were in an acceptable range. The data analyzed resulted in the following ratios:

Prowers County Agricultural Land Ratio Grid						
Abstract Code	Land Class	Number Of Acres	County Value Per Acre	County Assessed Total Value	WRA Total Value	Ratio
4107	Sprinkler	17,510	55.00	957,115	1,022,824	0.94
4117	Flood	111,060	150.00	16,647,261	16,809,331	0.99
4127	Dry Farm	384,450	17.00	6,620,088	6,895,791	0.96
4147	Grazing	458,373	5.00	2,402,263	2,402,263	1.00
4167	Waste	17,327	2.00	30,246	30,246	1.00
Total/Avg		988,720	27.00	26,656,973	27,160,455	0.98

Recommendations

None

Agricultural Outbuildings

Methodology

Data was collected and reviewed to determine if the guidelines found in the Assessor's Reference Library (ARL) Volume 3, pages 5.74 through 5.77 were being followed.

Conclusions

Prowers County has substantially complied with the procedures provided by the Division of Property Taxation for the valuation of agricultural outbuildings.

Recommendations

None

Agricultural Land Under Improvements

Methodology

Data was collected and reviewed to determine if the guidelines found in the Assessor's Reference Library (ARL) Volume 3, pages 5.19 and 5.20 were being followed.

Prowers County utilized the following discovery method(s):

- In-Person Interviews
- Personal Knowledge of Owners and Tenants

Conclusions

Prowers County has substantially complied with the procedures provided by the Division of Property Taxation for the valuation of land under residential improvements that may or may not be integral to an agricultural operation.

Recommendations

None

SALES VERIFICATION

According to Colorado Revised Statutes:

A representative body of sales is required when considering the market approach to appraisal.

(8) In any case in which sales prices of comparable properties within any class or subclass are utilized when considering the market approach to appraisal in the determination of actual value of any taxable property, the following limitations and conditions shall apply:

(a)(I) Use of the market approach shall require a representative body of sales, including sales by a lender or government, sufficient to set a pattern, and appraisals shall reflect due consideration of the degree of comparability of sales, including the extent of similarities and dissimilarities among properties that are compared for assessment purposes. In order to obtain a reasonable sample and to reduce sudden price changes or fluctuations, all sales shall be included in the sample that reasonably reflect a true or typical sales price during the period specified in section 39-1-104 (10.2). Sales of personal property exempt pursuant to the provisions of sections 39-3-102, 39-3-103, and 39-3-119 to 39-3-122 shall not be included in any such sample.

(b) Each such sale included in the sample shall be coded to indicate a typical, negotiated sale, as screened and verified by the assessor. (39-1-103, C.R.S.)

The assessor is required to use sales of real property only in the valuation process.

(8)(f) Such true and typical sales shall include only those sales which have been determined on an individual basis to reflect the selling price of the real property only or which have been adjusted on an individual basis to reflect the selling price of the real property only. (39-1-103, C.R.S.)

Part of the Property Assessment Study is the sales verification analysis. WRA has used the above-cited statutes as a guide in our study of the county's procedures and practices for verifying sales.

WRA reviewed the sales verification procedures in 2013 for Prowers County. This study was conducted by checking selected sales from the master sales list for the current valuation period. Specifically WRA selected 31 sales listed as unqualified.

All of the sales in the unqualified sales sample had reasons that were clear and supportable.

For residential, commercial, and vacant land sales with considerations over \$500, the contractor has examined and reported the ratio of qualified sales to total sales by class and performed the following analyses of unqualified sales:

The contractor has examined the manner in which sales have been classified as qualified or unqualified, including a listing of each step in the sales verification process, any adjustment procedures, and the county official responsible for making the final decision on qualification.

When less than 50 percent of sales are qualified in any of the three property classes (residential, commercial, and vacant land), the contractor analyzed the reasons for disqualifying sales in any subclass that constitutes at least 20 percent of the class, either by number of properties or by value, from the prior year. The contractor has

reviewed with the assessor any analysis indicating that sales data are inadequate, fail to reflect typical properties, or have been disqualified for insufficient cause. In addition, the contractor has reviewed the disqualified sales by assigned code. If there appears to be any inconsistency in the coding, the contractor has conducted further analysis to determine if the sales included in that code have been assigned appropriately.

If 50 percent or more of the sales are qualified, the contractor has reviewed a statistically significant sample of unqualified sales, excluding sales that were disqualified for obvious reasons.

The following subclasses were analyzed for Prowers County:

- 0100 Residential Lots
- 0200 Commercial Lots
- 2112 Merchandising
- 2130 Special Purpose

Conclusions

Prowers County appears to be doing an excellent job of verifying their sales. WRA agreed with the county's reason for disqualifying each of the sales selected in the sample. There are no recommendations or suggestions.

Recommendations

None

ECONOMIC AREA REVIEW AND EVALUATION

Methodology

Prowers County has submitted a written narrative describing the economic areas that make up the county's market areas. Prowers County has also submitted a map illustrating these areas. Each of these narratives have been read and analyzed for logic and appraisal sensibility. The maps were also compared to the narrative for consistency between the written description and the map.

Conclusions

After review and analysis, it has been determined that Prowers County has

adequately identified homogeneous economic areas comprised of smaller neighborhoods. Each economic area defined is equally subject to a set of economic forces that impact the value of the properties within that geographic area and this has been adequately addressed. Each economic area defined adequately delineates an area that will give "similar values for similar properties in similar areas."

Recommendations

None

NATURAL RESOURCES

Earth and Stone Products

Methodology

Under the guidelines of the Assessor's Reference Library (ARL), Volume 3, Natural Resource Valuation Procedures, the income approach was applied to determine value for production of earth and stone products. The number of tons was multiplied by an economic royalty rate determined by the Division of Property Taxation to determine income. The income was multiplied by a recommended Hoskold factor to determine the actual value. The Hoskold factor is determined by the life of the reserves or the lease. Value is based on two variables: life and tonnage. The operator determines these since there is no other means to obtain production data through any state or private agency.

Conclusions

The County has applied the correct formulas and state guidelines to earth and stone production.

Recommendations

None

Producing Oil and Gas

Methodology

Assessors Reference Library (ARL) Volume 3, Chapter 6: Valuation of Natural Resources

STATUTORY REFERENCES

Section § 39-1-103, C.R.S., specifies that producing oil or gas leaseholds and lands are valued according to article 7 of title 39, C.R.S.

Actual value determined - when.

(2) The valuation for assessment of leaseholds and lands producing oil or gas shall be determined as provided in article 7 of this title.

§ 39-1-103, C.R.S.

Article 7 covers the listing, valuation, and assessment of producing oil and gas leaseholds and lands.

Valuation:

Valuation for assessment.

(1) Except as provided in subsection (2) of this section, on the basis of the information contained in such statement, the assessor shall value such oil and gas leaseholds and lands for assessment, as real property, at an amount equal to eighty-seven and one-half percent of:

(a) The selling price of the oil or gas sold there from during the preceding calendar year, after excluding the selling price of all oil or gas delivered to the United States government or any agency thereof, the state of Colorado or any agency thereof, or any political subdivision of the state as royalty during the preceding calendar year;

(b) The selling price of oil or gas sold in the same field area for oil or gas transported from the premises which is not sold during the preceding calendar year, after excluding the selling price of all oil or gas delivered to the United States government or any agency thereof, the state of Colorado or any agency thereof, or any political subdivision of the state as royalty during the preceding calendar year.

§ 39-7-102, C.R.S.

Conclusions

The county applied approved appraisal procedures in the valuation of oil and gas.

Recommendations

None

VACANT LAND

Subdivision Discounting

Subdivisions were reviewed in 2013 in Prowers County. The review showed that subdivisions were discounted pursuant to the Colorado Revised Statutes in Article 39-1-103 (14). Discounting procedures were applied to all subdivisions where less than 80 percent of all sites were sold using the present worth method. The market approach was applied where 80 percent or more of the subdivision sites were sold. An absorption period was estimated for each subdivision that was discounted. An appropriate discount rate was

developed using the summation method. Subdivision land with structures was appraised at full market value.

Conclusions

Prowers County has implemented proper procedures to adequately estimate absorption periods, discount rates, and lot values for qualifying subdivisions.

Recommendations

None

POSSESSORY INTEREST PROPERTIES

Possessory Interest

Possessory interest property discovery and valuation is described in the Assessor's Reference Library (ARL) Volume 3 section 7 in accordance with the requirements of Chapter 39-1-103 (17)(a) (II) C.R.S. Possessory Interest is defined by the Property Tax Administrator's Publication ARL Volume 3, Chapter 7: A private property interest in government-owned property or the right to the occupancy and use of any benefit in government-owned property that has been granted under lease, permit, license, concession, contract, or other agreement.

Prowers County has been reviewed for their procedures and adherence to guidelines when assessing and valuing agricultural and

commercial possessory interest properties. The county has also been queried as to their confidence that the possessory interest properties have been discovered and placed on the tax rolls.

Conclusions

Prowers County has implemented a discovery process to place possessory interest properties on the roll. They have also correctly and consistently applied the correct procedures and valuation methods in the valuation of possessory interest properties.

Recommendations

None

PERSONAL PROPERTY AUDIT

Prowers County was studied for its procedural compliance with the personal property assessment outlined in the Assessor's Reference Library (ARL) Volume 5, and in the State Board of Equalization (SBOE) requirements for the assessment of personal property. The SBOE requires that counties use ARL Volume 5, including current discovery, classification, documentation procedures, current economic lives table, cost factor tables, depreciation table, and level of value adjustment factor table.

The personal property audit standards narrative must be in place and current. A listing of businesses that have been audited by the assessor within the twelve-month period reflected in the plan is given to the auditor. The audited businesses must be in conformity with those described in the plan.

Aggregate ratio will be determined solely from the personal property accounts that have been physically inspected. The minimum assessment sample is one percent or ten schedules, whichever is greater, and the maximum assessment audit sample is 100 schedules.

For the counties having over 100,000 population, WRA selected a sample of all personal property schedules to determine whether the assessor is correctly applying the provisions of law and manuals of the Property Tax Administrator in arriving at the assessment levels of such property. This sample was selected from the personal property schedules audited by the assessor. In no event was the sample selected by the contractor less than 30 schedules. The counties to be included in this study are Adams, Arapahoe, Boulder, Denver, Douglas, El Paso, Jefferson, Larimer, Mesa, Pueblo, and Weld. All other counties received a procedural study.

Prowers County is compliant with the guidelines set forth in ARL Volume 5 regarding discovery procedures, using the following methods to discover personal property accounts in the county:

- Public Record Documents
- Local Telephone Directories, Newspapers or Other Local Publications
- Personal Observation, Physical Canvassing or Word of Mouth
- Questionnaires, Letters and/or Phone Calls to Buyer, Seller and/or Realtor

The county uses the Division of Property Taxation (DPT) recommended classification and documentation procedures. The DPT's recommended cost factor tables, depreciation tables and level of value adjustment factor tables are also used.

Prowers County submitted their personal property written audit plan and was current for the 2013 valuation period. The number and listing of businesses audited was also submitted and was in conformance with the written audit plan. The following audit triggers were used by the county to select accounts to be audited:

- Accounts with obvious discrepancies
- New businesses filing for the first time
- Same business type or use
- Non-filing Accounts - Best Information Available
- Accounts close to the \$7,000 actual value exemption status
- Change of ownership



Conclusions

Prowers County has employed adequate discovery, classification, documentation, valuation, and auditing procedures for their

personal property assessment and is in compliance with SBOE requirements.

Recommendations

None

WILDROSE AUDITOR STAFF

Harry J. Fuller, *Audit Project Manager*

Suzanne Howard, *Audit Administrative Manager*

Steve Kane, *Audit Statistician*

Carl W. Ross, *Agricultural / Natural Resource Analyst*

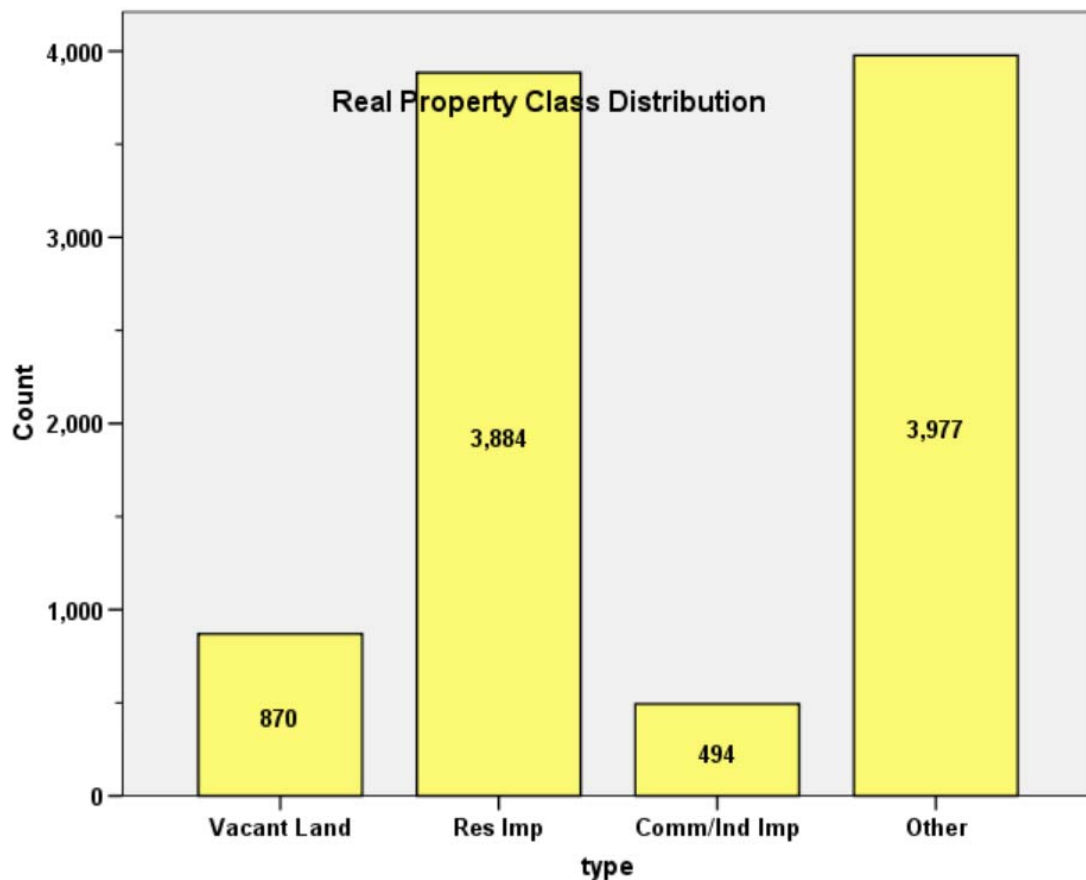
J. Andrew Rodriguez, *Field Analyst*

APPENDICES

STATISTICAL COMPLIANCE REPORT
FOR PROWERS COUNTY
 2013

I. OVERVIEW

Prowers County is an agricultural county located in southeastern Colorado. The county has a total of 9,225 real property parcels, according to data submitted by the county assessor’s office in 2013. The following provides a breakdown of property classes for this county:



The vacant land class of properties was dominated by residential land. Residential lots (coded 100 and 1112) accounted for 38% of all vacant land parcels. Based on the number of vacant land parcels in Prowers County, we were not required to analyze this class of property for audit compliance.

For residential improved properties, single family properties accounted for 83.3% of all residential properties. Properties classified as mobile homes (1235) were excluded from this analysis.

Commercial and industrial properties represented a much smaller proportion of property classes in comparison. Commercial/industrial sales accounted for 5.3% of all such properties in this county.

II. DATA FILES

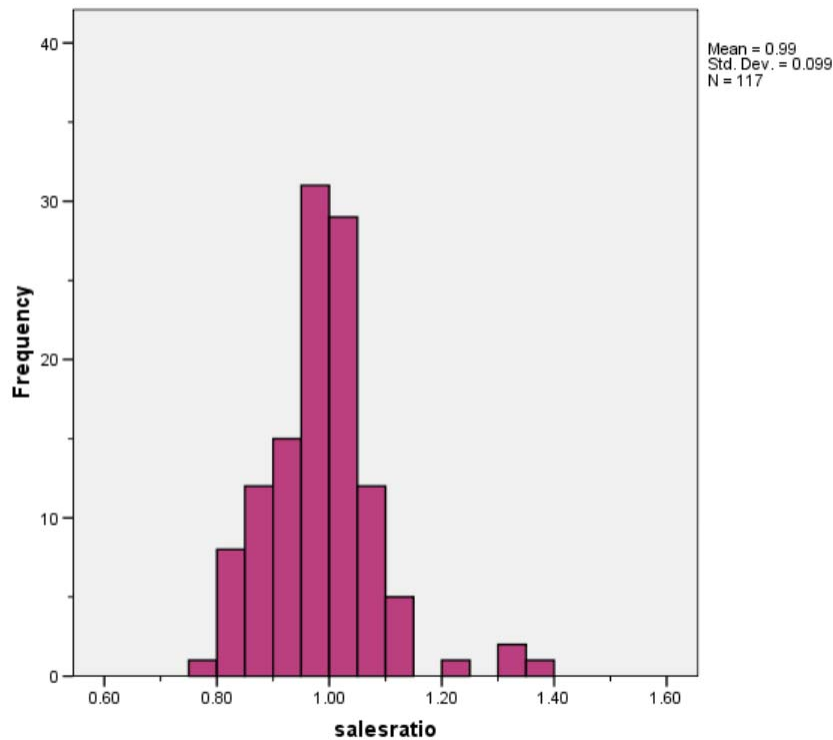
The following sales analyses were based on the requirements of the 2013 Colorado Property Assessment Study. Information was provided by the Prowers Assessor's Office in April 2013. The data included all 5 property record files as specified by the Auditor.

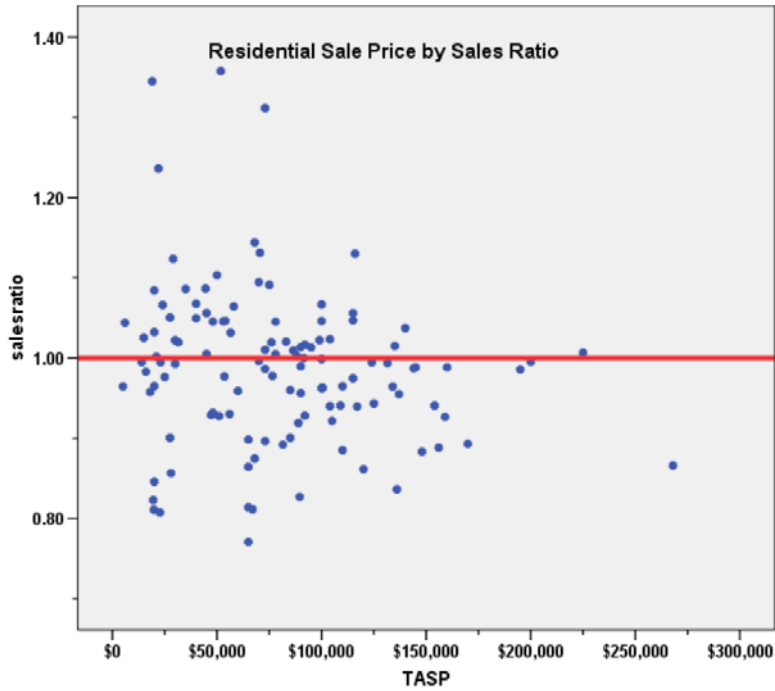
III. RESIDENTIAL SALES RESULTS

We analyzed 117 qualified residential sales for this analysis.

Median	0.993
Price Related Differential	1.011
Coefficient of Dispersion	.071

The above ratio statistics were in compliance with the standards set forth by the Colorado State Board of Equalization (SBOE) for the overall residential sales. The following graphs describe further the sales ratio distribution for all of these properties:





The above graphs indicate that the distribution of the sale ratios was within state mandated limits, and that there were no significant price-related differential issues. No sales were trimmed.

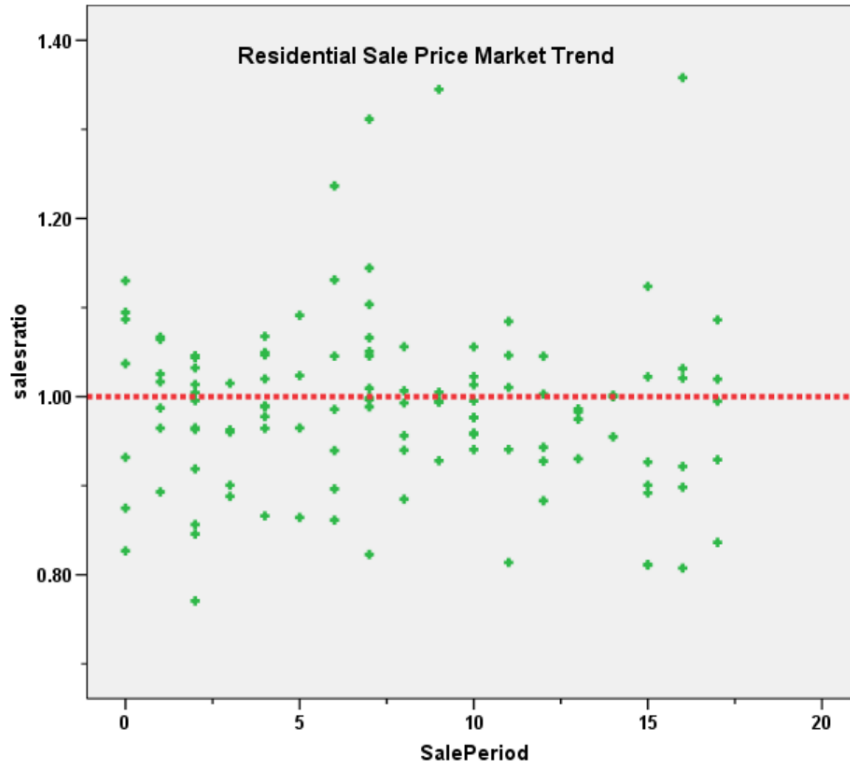
Residential Market Trend Analysis

We next analyzed the residential dataset using the 18-month sale period, with the following results:

Coefficients^a

Model	Unstandardized Coefficients		Standardized Coefficients	t	Sig.
	B	Std. Error	Beta		
1 (Constant)	.995	.017		59.968	.000
SalePeriod	-.001	.002	-.045	-.481	.631

a. Dependent Variable: salesratio



The above analysis indicated that there was no significant residual marginal trend present in the sale ratios. We concur with the assessor that no market trending adjustments were required.

Sold/Unsold Analysis

In terms of the valuation consistency between sold and unsold residential properties, we compared the median actual value per square foot for 2013 between each group, as follows:

Group	No. Props	Median Val/Sf	Mean Val/SF
Unsold	3,753	\$36	\$38
Sold	117	\$50	\$46

We also examined the average change in value between 2011 and 2013 reappraisal years to verify that sold properties and unsold properties were valued in a similar manner:

Group	No. Props	Median Chg Val	Mean Chg Val
Unsold	3,761	0.965	1,031
Sold	117	0.964	1,002

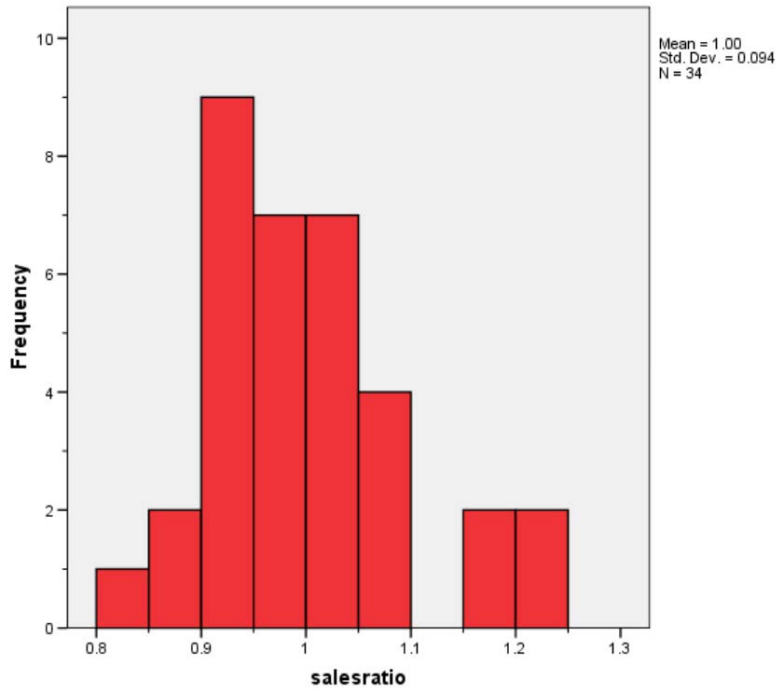
The above results indicate that sold and unsold residential properties were valued in a consistent manner.

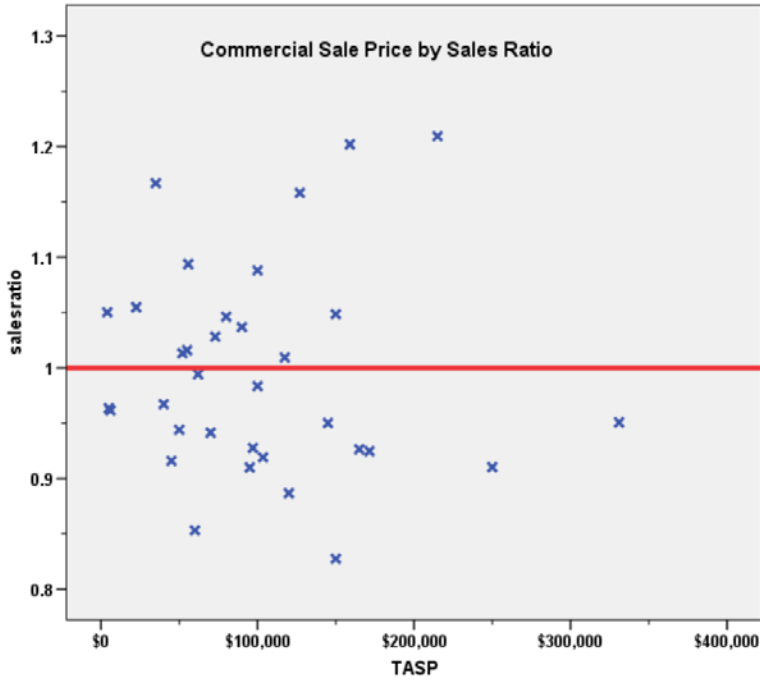
IV. COMMERCIAL/INDUSTRIAL SALE RESULTS

We analyzed 34 qualified commercial/industrial sales for this analysis

Median	0.975
Price Related Differential	1.002
Coefficient of Dispersion	.076

The above table indicates that the Prowers County commercial/industrial sale ratios were in compliance with the SBOE standards, both overall and by relevant subclass (none in this case due to the small number of sales). The following histogram and scatter plot describe the sales ratio distribution further:





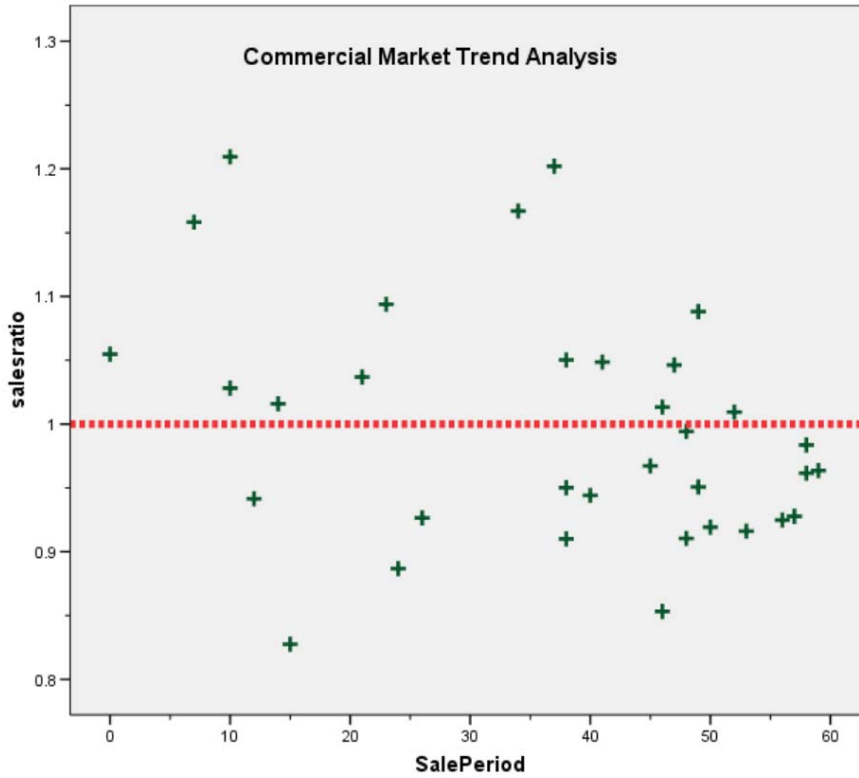
Commercial Market Trend Analysis

The assessor did not apply any market trend adjustment to the commercial dataset. The 34 sales did not indicate a significant trend, based on our analysis.

Coefficients^a

Model		Unstandardized Coefficients		Standardized Coefficients	t	Sig.
		B	Std. Error	Beta		
1	(Constant)	1.061	.037		28.656	.000
	SalePeriod	-.002	.001	-.321	-1.920	.064

a. Dependent Variable: salesratio



Sold/Unsold Analysis

We compared the median actual value per square foot between sold and unsold commercial properties to determine if the assessor was valuing each group consistently. While this is a challenge to prove in this county, given the small number of sales and the overall small number and diversity of commercial/industrial properties in general, the following results indicate that based on the median actual value, both groups were valued in a consistent manner:

Group	No.	Median Val/SF	Mean Val/SF
Unsold	492	\$16	\$27
Sold	34	\$22	\$28

V. AGRICULTURAL IMPROVEMENTS ANALYSIS

The final statistical verification concerned the assigned actual values for agricultural residential improvements. We compared the actual value per square foot rate for this group and compared it to rates assigned to residential single family improvements in Prowers County.

The following indicates that agricultural residential improvements were valued in a manner similar to the single family residential improvements in this county:

Descriptives

<u>ABSTRIMP</u>				Statistic	Std. Error
<u>ImpVslSE</u>	SFR	Mean		\$21.58	\$.938
		95% Confidence Interval for	Lower Bound	\$19.73	
		Mean	Upper Bound	\$23.44	
		5% Trimmed Mean		\$21.35	
		Median		\$19.81	
		Variance		110.055	
		Std. Deviation		\$10.491	
		Minimum		\$0	
		Maximum		\$50	
		Range		\$50	
		Interquartile Range		\$14	
		<u>Skewness</u>		.484	.217
		Kurtosis		-.119	.430
	Ag Res	Mean		\$31.18	\$2.614
		95% Confidence Interval for	Lower Bound	\$26.03	
		Mean	Upper Bound	\$36.34	
		5% Trimmed Mean		\$27.25	
		Median		\$18.83	
		Variance		1448.999	
		Std. Deviation		\$38.066	
		Minimum		\$0	
		Maximum		\$396	
		Range		\$396	
		Interquartile Range		\$28	
		<u>Skewness</u>		6.812	.167
		Kurtosis		59.299	.333

VI. CONCLUSIONS

Based on this statistical analysis, there were no significant compliance issues concluded for Prowers County as of the date of this report.

STATISTICAL ABSTRACT

Residential

Ratio Statistics for CURRTOT / TASP

Mean	95% Confidence Interval for Mean		Median	95% Confidence Interval for Median			Weighted Mean	95% Confidence Interval for Weighted Mean		Price Related Differential	Coefficient of Dispersion	Coefficient of Variation Mean Centered
	Lower Bound	Upper Bound		Lower Bound	Upper Bound	Actual Coverage		Lower Bound	Upper Bound			
.988	.970	1.007	.993	.975	1.005	95.8%	.977	.961	.994	1.011	.071	10.0%

The confidence interval for the median is constructed without any distribution assumptions. The actual coverage level may be greater than the specified level. Other confidence intervals are constructed by assuming a Normal distribution for the ratios.

Commercial/Industrial

Ratio Statistics for CURRTOT / TASP

Mean	95% Confidence Interval for Mean		Median	95% Confidence Interval for Median			Weighted Mean	95% Confidence Interval for Weighted Mean		Price Related Differential	Coefficient of Dispersion	Coefficient of Variation Mean Centered
	Lower Bound	Upper Bound		Lower Bound	Upper Bound	Actual Coverage		Lower Bound	Upper Bound			
.997	.964	1.029	.975	.942	1.037	97.6%	.994	.947	1.041	1.002	.076	9.4%

The confidence interval for the median is constructed without any distribution assumptions. The actual coverage level may be greater than the specified level. Other confidence intervals are constructed by assuming a Normal distribution for the ratios.

Vacant Land

Not applicable

Residential Median Ratio Stratification

Sale Price

Case Processing Summary

		Count	Percent
SPRec	LT \$25K	19	16.2%
	\$25K to \$50K	17	14.5%
	\$50K to \$100K	48	41.0%
	\$100K to \$150K	24	20.5%
	\$150K to \$200K	7	6.0%
	\$200K to \$300K	2	1.7%
Overall		117	100.0%
Excluded		0	
Total		117	

Ratio Statistics for CURRTOT / TASP

Group	Median	Price Related Differential	Coefficient of Dispersion	Coefficient of Variation
				Median Centered
LT \$25K	.995	1.001	.090	13.5%
\$25K to \$50K	1.045	.997	.054	7.6%
\$50K to \$100K	.999	1.001	.075	10.9%
\$100K to \$150K	.965	1.000	.051	6.9%
\$150K to \$200K	.941	.997	.040	4.9%
\$200K to \$300K	.936	1.007	.075	10.6%
Overall	.993	1.011	.071	10.0%

Sub-Class

Case Processing Summary

	Count	Percent
ABSTRIMP 1212	102	87.2%
1213	2	1.7%
1213	2	1.7%
1213	1	.9%
1215	1	.9%
1220	1	.9%
1233	7	6.0%
1235	1	.9%
Overall	117	100.0%
Excluded	0	
Total	117	

Ratio Statistics for CURRTOT / TASP

Group	Median	Price Related Differential	Coefficient of Dispersion	Coefficient of Variation
				Median Centered
1212	.989	1.013	.072	10.2%
1213	.937	.994	.052	7.4%
1213	1.041	1.004	.025	3.5%
1213	1.047	1.000	.000	.%
1215	.892	1.000	.000	.%
1220	1.045	1.000	.000	.%
1233	.994	.999	.080	11.6%
1235	1.009	1.000	.000	.%
Overall	.993	1.011	.071	10.0%

Improvement Age

Case Processing Summary

		Count	Percent
AgeRec	Over 100	15	12.8%
	75 to 100	17	14.5%
	50 to 75	31	26.5%
	25 to 50	44	37.6%
	5 to 25	9	7.7%
	5 or Newer	1	.9%
Overall		117	100.0%
Excluded		0	
Total		117	

Ratio Statistics for CURRTOT / TASP

Group	Median	Price Related Differential	Coefficient of Dispersion	Coefficient of Variation
				Median Centered
Over 100	.993	1.013	.090	11.9%
75 to 100	.976	1.028	.101	13.7%
50 to 75	1.002	1.008	.067	10.0%
25 to 50	.992	1.004	.056	8.1%
5 to 25	.941	.988	.056	7.2%
5 or Newer	.866	1.000	.000	.%
Overall	.993	1.011	.071	10.0%

Improved Area

Case Processing Summary

		Count	Percent
ImpSFRec	500 to 1,000 sf	12	10.3%
	1,000 to 1,500 sf	42	35.9%
	1,500 to 2,000 sf	31	26.5%
	2,000 to 3,000 sf	29	24.8%
	3,000 sf or Higher	3	2.6%
Overall		117	100.0%
Excluded		0	
Total		117	

Ratio Statistics for CURRTOT / TASP

Group	Median	Price Related Differential	Coefficient of Dispersion	Coefficient of Variation
				Median Centered
500 to 1,000 sf	.974	1.004	.069	10.0%
1,000 to 1,500 sf	.995	1.017	.082	11.1%
1,500 to 2,000 sf	1.005	1.012	.051	6.4%
2,000 to 3,000 sf	.986	1.023	.077	12.0%
3,000 sf or Higher	1.045	1.013	.023	3.7%
Overall	.993	1.011	.071	10.0%

Quality

Case Processing Summary

		Count	Percent
QUALITY	ABOVE	2	1.7%
	ABOVE AVG	13	11.1%
	AVERAGE	28	23.9%
	AVERAGE/GD	2	1.7%
	AVG/ABOVE	24	20.5%
	AVG/GOOD	4	3.4%
	EXCELLENT	1	.9%
	FAIR	14	12.0%
	FAIR/AVG	6	5.1%
	FR/AVG	2	1.7%
	H/LOW	1	.9%
	LOW	7	6.0%
	LOW/FAIR	10	8.5%
	MINIMUM	3	2.6%
Overall		117	100.0%
Excluded		0	
Total		117	

Ratio Statistics for CURRTOT / TASP

Group	Median	Price Related Differential	Coefficient of Dispersion	Coefficient of Variation
				Median Centered
ABOVE	.880	.950	.124	17.5%
ABOVE AVG	.943	1.007	.067	8.2%
AVERAGE	.977	1.008	.062	8.6%
AVERAGE/GD	1.221	.999	.074	10.4%
AVG/ABOVE	.986	.999	.049	6.7%
AVG/GOOD	.947	1.000	.087	11.1%
EXCELLENT	1.007	1.000	.000	.%
FAIR	.987	1.007	.050	7.6%
FAIR/AVG	1.021	1.001	.088	12.7%
FR/AVG	.939	.981	.041	5.8%
H/LOW	1.056	1.000	.000	.%
LOW	1.044	.998	.090	14.3%
LOW/FAIR	1.020	.991	.087	13.6%
MINIMUM	1.032	1.027	.049	7.8%
Overall	.993	1.011	.071	10.0%

Commercial Median Ratio Stratification

Sale Price

Case Processing Summary

		Count	Percent
SPRec	LT \$25K	4	11.8%
	\$25K to \$50K	4	11.8%
	\$50K to \$100K	13	38.2%
	\$100K to \$150K	7	20.6%
	\$150K to \$200K	3	8.8%
	\$200K to \$300K	2	5.9%
	\$300K to \$500K	1	2.9%
Overall		34	100.0%
Excluded		0	
Total		34	

Ratio Statistics for CURRTOT / TASP

Group	Median	Price Related Differential	Coefficient of Dispersion	Coefficient of Variation
				Median Centered
LT \$25K	1.007	.981	.045	5.2%
\$25K to \$50K	.956	1.011	.072	13.0%
\$50K to \$100K	1.013	1.001	.053	7.2%
\$100K to \$150K	.950	1.001	.088	11.9%
\$150K to \$200K	.926	1.003	.100	21.0%
\$200K to \$300K	1.060	1.011	.141	19.9%
\$300K to \$500K	.951	1.000	.000	.%
Overall	.975	1.002	.076	9.9%

Subclass

Case Processing Summary

	Count	Percent
ABSTRIMP 1712	1	2.9%
2212	6	17.6%
2220	5	14.7%
2224	1	2.9%
2230	11	32.4%
2232	1	2.9%
2232	1	2.9%
2233	2	5.9%
2235	5	14.7%
9251	1	2.9%
Overall	34	100.0%
Excluded	0	
Total	34	

Ratio Statistics for CURRTOT / TASP

Group	Median	Price Related Differential	Coefficient of Dispersion	Coefficient of Variation
				Median Centered
1712	1.088	1.000	.000	.%
2212	1.004	.936	.069	10.5%
2220	.964	1.003	.044	5.9%
2224	1.037	1.000	.000	.%
2230	.984	1.030	.088	11.2%
2232	.951	1.000	.000	.%
2232	.967	1.000	.000	.%
2233	.977	1.021	.052	7.4%
2235	.925	.993	.043	6.3%
9251	1.202	1.000	.000	.%
Overall	.975	1.002	.076	9.9%

Age

Case Processing Summary

		Count	Percent
AgeRec	Over 100	7	20.6%
	75 to 100	1	2.9%
	50 to 75	9	26.5%
	25 to 50	12	35.3%
	5 to 25	5	14.7%
Overall		34	100.0%
Excluded		0	
Total		34	

Ratio Statistics for CURRTOT / TASP

Group	Median	Price Related Differential	Coefficient of Dispersion	Coefficient of Variation
				Median Centered
Over 100	1.013	.999	.038	5.0%
75 to 100	.916	1.000	.000	.%
50 to 75	.984	1.011	.069	8.7%
25 to 50	.957	1.002	.099	14.2%
5 to 25	.994	1.012	.070	10.2%
Overall	.975	1.002	.076	9.9%

Improved Area

Case Processing Summary

		Count	Percent
ImpSFRec	LE 500 sf	1	2.9%
	500 to 1,000 sf	1	2.9%
	1,000 to 1,500 sf	4	11.8%
	1,500 to 2,000 sf	4	11.8%
	2,000 to 3,000 sf	5	14.7%
	3,000 sf or Higher	19	55.9%
Overall		34	100.0%
Excluded		0	
Total		34	

Ratio Statistics for CURRTOT / TASP

Group	Median	Price Related Differential	Coefficient of Dispersion	Coefficient of Variation
				Median Centered
LE 500 sf	.853	1.000	.000	.%
500 to 1,000 sf	.964	1.000	.000	.%
1,000 to 1,500 sf	.989	1.025	.038	5.8%
1,500 to 2,000 sf	.992	.994	.033	4.0%
2,000 to 3,000 sf	.962	1.024	.077	12.8%
3,000 sf or Higher	1.009	1.003	.087	10.7%
Overall	.975	1.002	.076	9.9%

Quality

Case Processing Summary

		Count	Percent
QUALITY	AVERAGE	6	17.6%
	AVG/GOOD	2	5.9%
	FAIR	6	17.6%
	FR/AVG	8	23.5%
	LOW	6	17.6%
	LOW/FAIR	2	5.9%
	MINIMUM	4	11.8%
Overall		34	100.0%
Excluded		0	
Total		34	

Ratio Statistics for CURRTOT / TASP

Group	Median	Price Related Differential	Coefficient of Dispersion	Coefficient of Variation
				Median Centered
AVERAGE	.989	.992	.072	10.1%
AVG/GOOD	1.031	.990	.061	8.7%
FAIR	.977	1.002	.052	5.8%
FR/AVG	.980	.991	.068	10.1%
LOW	1.051	1.021	.087	11.6%
LOW/FAIR	.876	.996	.055	7.8%
MINIMUM	.963	1.088	.052	8.4%
Overall	.975	1.002	.076	9.9%

Vacant Land Median Ratio Stratification

Not applicable